

Appl. No. 10/019,030  
Atty. Docket No. AA411M  
Amdt. dated June 24, 2003  
Reply to Office Action of December 24, 2002

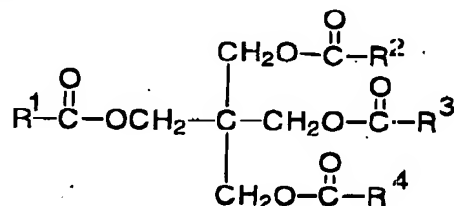
### AMENDMENTS TO THE CLAIMS

#### WHAT IS CLAIMED IS:

- B4
1. (Currently amended) A hair conditioning composition comprising by weight:
    - (a) from about 0.1% to about 20% of a cationic silicone emulsion comprising by weight of the cationic silicone emulsion from about 1% to about 20% of a cationic surfactant; and an emulsifiable amount of a silicone compound having a particle size of less than about 50 microns, wherein the silicone compound comprises a mechanically emulsified polydimethylsiloxane;
    - (b) from about 0.1% to about 15% of a high melting point fatty compound having a melting point of 25°C or higher;
    - (c) from about 0.1% to about 10% of a cationic conditioning agent; and
    - (d) an aqueous carrier.
  2. (Original) The hair conditioning composition according to Claim 1 wherein the cationic silicone emulsion comprises by weight from about 2% to about 8% of the cationic surfactant.
  3. (Original) The hair conditioning composition according to Claim 1 wherein the silicone compound has a particle size of from about 0.2 microns to about 2.5 microns.
  4. (Canceled)
  5. (Currently amended) The hair conditioning composition according to Claim 1 comprising by weight from about 0.55% to about 7% of the cationic conditioning agent; the cationic conditioning agent comprising:  
an amidoamine having the following ~~general~~ formula:  
$$R^1 \text{CONH}(\text{CH}_2)_m \text{N}(\text{R}^2)_2$$
  
wherein  $R^1$  is a residue of  $\text{C}_{11}$  to  $\text{C}_{24}$  fatty acids,  $R^2$  is a  $\text{C}_1$  to  $\text{C}_4$  alkyl, and  $m$  is an integer from 1 to 4; and  
a acid selected from the group consisting of L-glutamic acid, lactic acid, hydrochloric acid, malic acid, succinic acid, acetic acid, fumaric acid, L-glutamic acid hydrochloride, tartaric acid, and mixtures thereof.

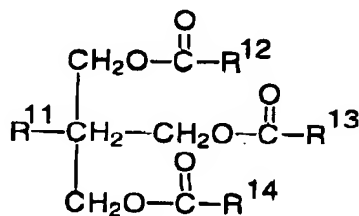
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6. (Previously amended) The hair conditioning composition according to Claim 1 further comprising by weight from about 0.1% to about 10% of a low melting point oil having a melting point of less than 25°C.
7. (Original) The hair conditioning composition according to Claim 6 wherein the low melting point oil is an unsaturated fatty alcohol.
8. (Currently amended) The hair conditioning composition according to Claim 6 wherein the low melting point oil is selected from the group consisting of:
- (a) pentaerythritol ester oils having a molecular weight of at least about 800, and having the following formula:



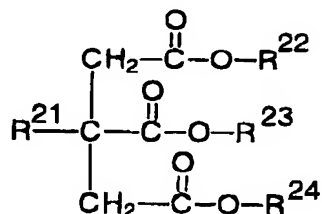
wherein R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup>, independently, are branched, straight, saturated, or unsaturated alkyl, aryl, and alkylaryl groups selected from the group consisting of C<sub>1</sub>-C<sub>30</sub> alkyl, C<sub>2</sub>-C<sub>30</sub> alkenyl alkyl, C<sub>6</sub>-C<sub>30</sub> aryl, and C<sub>6</sub>-C<sub>30</sub> alkyl aryl; having from 1 to about 30 carbons;

- (b) trimethylol ester oils having a molecular weight of at least about 800, and having the following formula:



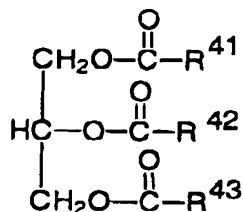
wherein R<sup>11</sup> is an alkyl group having from 1 to about 30 carbons, and R<sup>12</sup>, R<sup>13</sup>, and R<sup>14</sup>, independently, are branched, straight, saturated, or unsaturated alkyl, aryl, and alkylaryl groups selected from the group consisting of C<sub>1</sub>-C<sub>30</sub> alkyl, C<sub>2</sub>-C<sub>30</sub> alkenyl alkyl, C<sub>6</sub>-C<sub>30</sub> aryl, and C<sub>6</sub>-C<sub>30</sub> alkyl aryl; having from 1 to about 30 carbons;

- (c) poly α-olefin oils derived from 1-alkene monomers having from about 6 to about 16 carbons, the poly α-olefin oils having a viscosity of from about 1 to about 35,000 cst, a molecular weight of from about 200 to about 60,000, and a polydispersity of no more than about 3;
- (d) citrate ester oils having a molecular weight of at least about 500, and having the following formula:

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wherein  $\text{R}^{21}$  is OH or  $\text{CH}_3\text{COO}$ , and  $\text{R}^{22}$ ,  $\text{R}^{23}$ , and  $\text{R}^{24}$ , independently, are branched, straight, saturated, or unsaturated alkyl, aryl, and alkylaryl groups selected from the group consisting of  $\text{C}_1$ - $\text{C}_{30}$  alkyl,  $\text{C}_2$ - $\text{C}_{30}$  alkenyl alkyl,  $\text{C}_6$ - $\text{C}_{30}$  aryl, and  $\text{C}_6$ - $\text{C}_{30}$  alkyl aryl; having from 1 to about 30 carbons;

(e) glyceryl ester oils having a molecular weight of at least about 500, and having the following formula:



wherein  $\text{R}^{41}$ ,  $\text{R}^{42}$ , and  $\text{R}^{43}$ , independently, are branched, straight, saturated, or unsaturated alkyl, aryl, and alkylaryl groups selected from the group consisting of  $\text{C}_1$ - $\text{C}_{30}$  alkyl,  $\text{C}_2$ - $\text{C}_{30}$  alkenyl alkyl,  $\text{C}_6$ - $\text{C}_{30}$  aryl, and  $\text{C}_6$ - $\text{C}_{30}$  alkyl aryl; having from 1 to about 30 carbons and mixtures thereof.

9. (Original) The hair conditioning composition according to Claim 7 further comprising by weight from about 0.1% to about 10% of a polyethylene glycol having the formula:



wherein  $n$  has an average value of from 2,000 to 14,000.

10. (Previously amended) A method of increasing hair volume by applying the hair conditioning composition according to Claim 1 to the hair.